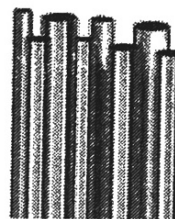


Name: _____

Teacher: _____

Algebra Pd: _____

WWP #9: Mixtures #2



Day Month Year

Please note: ACCURACY COUNTS!

The Situation: Ella is an engineer, working with copper alloy. She has one hundred kilograms of twenty-five percent copper alloy and one hundred kilograms of fifty percent copper alloy. How many kilograms of each alloy does she need to make forty kilograms of forty-five percent copper alloy?

a. READ and ANNOTATE the word problem, then PREDICT: Which alloy will she need more of?

b. Define variables that make sense for the situation.

c. Write a system of equations for the situation.

d. Solve the system using substitution or elimination.